

IN THE CLAIMS:

Please substitute the following claims for the same-numbered claims in the application:

1. (Currently Amended) A method for constructing extensible markup language (XML) transactions comprising an XML format run on a computer system, said method comprising:
 - establishing an original pre-defined data type definition format for an XML transaction;
 - creating a copy of said original pre-defined data type definition format for said XML transaction;
 - pre-building static structures of said XML transaction, wherein said static structures comprise a pre-built XML data structure with pre-filled values based on a transaction type of said XML transaction and a predetermined trading partner profile;
 - classifying dynamic structures of said XML transaction with empty tags and single occurrence classifiers for repeating dynamic structures;
 - building a list of a sequence of said static and dynamic structures;
 - linking said list to the type-of XML transaction and said predetermined trading partner profile;
 - combining said static structures with said dynamic structures at a runtime of to construct said XML transaction based on said sequence, said type-of XML transaction, said trading partner profile, and said dynamic structures of said XML transaction, wherein an occurrence of said runtime of said XML transaction occurs when said XML transaction is sent to a trading partner, wherein said combining comprises filling the empty tags of said dynamic structures; and

constructing a final XML structure based on the combining process, wherein said final XML structure comprises fully built dynamic structures that comprise completely filled tags, and wherein said final XML structure is validated by comparing said final XML structure against said copy of said original pre-defined data type definition format for said XML transaction.

2. (Currently Amended) The method of claim 1, all the limitations of which are incorporated herein by reference, wherein said XML transaction occurs in a business-to-business (B2B) electronic environment.

3. (Currently Amended) The method of claim 1, all the limitations of which are incorporated herein by reference, further comprising predefining said trading partner profile associated with a predetermined trading entity.

4. (Currently Amended) The method of claim 1, all the limitations of which are incorporated herein by reference, wherein said pre-building of said static structures occurs prior to runtime of said XML transaction.

5. (Currently Amended) The method of claim 1, all the limitations of which are incorporated herein by reference, wherein the construction of said final XML structure follows definitions established by said copy of said original pre-defined data type definition format for said XML transaction.

6. (Currently Amended) The method of claim 1, all the limitations of which are incorporated herein by reference, further comprising filling said empty tags of said dynamic structures with business data values and building multiple repeating dynamic structures at runtime of said XML transaction.

7. (Cancelled).

8. (Currently Amended) The method of claim 3, all the limitations of which are incorporated herein by reference, wherein said trading partner profile comprises partner data, communication protocol data, transaction data, transaction format data, and XML format version data.

9. (Currently Amended) The method of claim 3, all the limitations of which are incorporated herein by reference, wherein said pre-building of said static structures and a pre-building of said dynamic structures occurs at a time of installation of said trading partner profile in a database in said computer system.

10. (Currently Amended) The method of claim 9, all the limitations of which are incorporated herein by reference, further comprising:

linking said static structures to a type of XML transaction and said predetermined trading partner profile; and

storing the linked static structures in said database.

11. (Currently Amended) A program storage device readable by computer, tangibly embodying a program of instructions executable by said computer to perform a method for constructing extensible markup language (XML) transactions comprising an XML format run on a computer system, said method comprising:

establishing an original pre-defined data type definition format for an XML transaction;

creating a copy of said original pre-defined data type definition format for said XML transaction;

pre-building static structures of said XML transaction, wherein said static structures comprise a pre-built XML data structure with pre-filled values based on a transaction type of said XML transaction and a predetermined trading partner profile;

classifying dynamic structures of said XML transaction with empty tags and single occurrence classifiers for repeating dynamic structures;

classifying dynamic structures of said XML transaction with empty tags and single occurrence classifiers for repeating dynamic structures;

building a list of a sequence of said static and dynamic structures;

linking said list to the type of XML transaction and said predetermined trading partner profile;

combining said static structures with said dynamic structures at a runtime of said XML transaction based on said sequence, said type of XML transaction, said trading partner profile, and said dynamic structures of said XML transaction, wherein an occurrence of said runtime of said XML transaction occurs when said XML transaction is sent to a trading partner, wherein said combining comprises filling the empty tags of said dynamic structures; and

constructing a final XML structure based on the combining process, wherein said final XML structure comprises fully built dynamic structures that comprise completely filled tags, and wherein said final XML structure is validated by comparing said final XML structure against said copy of said original pre-defined data type definition format for said XML transaction.

12. (Currently Amended) The program storage device of claim 11, all the limitations of which are incorporated herein by reference, wherein said XML transaction occurs in a business-to-business (B2B) electronic environment.

13. (Currently Amended) The program storage device of claim 11, all the limitations of which are incorporated herein by reference, wherein said method further comprises predefining said trading partner profile associated with a predetermined trading entity.

14. (Currently Amended) The program storage device of claim 11, all the limitations of which are incorporated herein by reference, wherein said pre-building of said static structures occurs prior to runtime of said XML transaction.

15. (Currently Amended) The program storage device of claim 11, all the limitations of which are incorporated herein by reference, wherein the construction of said final XML structure follows definitions established by said copy of said original pre-defined data type definition format for said XML transaction.

16. (Currently Amended) The program storage device of claim 11, all the limitations of which are incorporated herein by reference, wherein said method further comprises filling said empty tags of said dynamic structures with business data values and building multiple repeating dynamic structures at runtime of said XML transaction.

17. (Cancelled).

18. (Currently Amended) The program storage device of claim 13, all the limitations of which are incorporated herein by reference, wherein said trading partner profile comprises partner data, communication protocol data, transaction data, transaction format data, and XML format version data.

19. (Currently Amended) The program storage device of claim 13, all the limitations of which are incorporated herein by reference, wherein said pre-building of said static structures and a pre-building of said dynamic structures occurs at a time of installation of said trading partner profile in a database in said computer system.

20. (Currently Amended) The program storage device of claim 19, all the limitations of which are incorporated herein by reference, wherein said method further comprises:

linking said static structures to a type of XML transaction and said predetermined trading partner profile; and

storing the linked static structures in said database.

21. (Currently Amended) A computer system operable for constructing extensible markup language (XML) transactions comprising an XML format, said computer system comprising:

means for establishing an original pre-defined data type definition format for an XML transaction;

means for creating a copy of said original pre-defined data type definition format for said XML transaction;

means for pre-building static structures of said XML transaction, wherein said static structures comprise a pre-built XML data structure with pre-filled values based on a transaction type of said XML transaction and a predetermined trading partner profile;

means for classifying dynamic structures of said XML transaction with empty tags and single occurrence classifiers for repeating dynamic structures;

means for building a list of a sequence of said static and dynamic structures;

means for linking said list to the type of XML transaction and said predetermined trading partner profile;

means for combining said static structures with said dynamic structures at a runtime of said XML transaction based on said sequence, said type of XML transaction, said trading partner profile, and said dynamic structures of said XML transaction, wherein an occurrence of said runtime of said XML transaction occurs when said XML transaction is sent to a trading partner, wherein said combining comprises filling the empty tags of said dynamic structures; and

means for constructing a final XML structure based on the combining process, wherein said final XML structure comprises fully built dynamic structures that comprise completely filled

tags, and wherein said final XML structure is validated by comparing said final XML structure against said copy of said original pre-defined data type definition format for said XML transaction.

22. (Currently Amended) The computer system of claim 21, all the limitations of which are incorporated herein by reference, further comprising:

means for predefining said trading partner profile associated with a predetermined trading entity;

means for filling said empty tags of said dynamic structures with business data values and building multiple repeating dynamic structures at runtime of said XML transaction;

means for linking said static structures to a type of XML transaction and said predetermined trading partner profile; and

means for storing the linked static structures.

23. (Currently Amended) The computer system of claim 21, all the limitations of which are incorporated herein by reference, wherein said static structures are pre-built prior to runtime of said XML transaction.

24. (Currently Amended) The computer system of claim 21, all the limitations of which are incorporated herein by reference, wherein said static structures and said dynamic structures are pre-built at a time of installation of said trading partner profile in a database of said computer system.